RECEIVED

JUN 2 1 1993

Section 2. Form PTO - 14495 (Modified)

FORM PTO-1449 U.S. DEPT. OF COMMERCE ATTY DOCKET NO. SERIAL NO. (Modified) PATENT MANU TRADEMARK OFFICE APPLICANT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT

Kwon et al

FILING DATE | GROUP

02/01/93 | 646

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUBCLASS :	FILING I IF APPRO	
AA		L	ļ		1		i
AB							

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER DOCUMENT	DAME	COUNTRY	
INITIAL NUMBER	<u>DATE</u>	COUNTRI_	
AM			

OTHER PRIOR ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AN Broxmeyer, H. E., B. Sherry, L. Lu, S. Cooper, C. Carow, S. D. Wolpe, and A. Cerami. 1989. Myelopoietic enhancing effects of murine macrophage inflammatory proteins and human bone marrow granulocyte/macrophage progenitor cells. J. Exp. Med. 170:1583;

Olso, B. S. Kwon, and A. Cerami. 1990. Enhancing and suppressing effects of recombinant murine macrophage inflammatory proteins on colony formation in vitro by bone marrow myeloid progenitor cells. Blood 76:1110;

AP| Broxmeyer, H. E., and D. E. Williams (1988), The production of myeloid blood cells and their regulation during health and disease; CRC Crit. Rev. Oncol./Hematol. 8:173.

AQ| Broxmeyer H. E. 1991. Suppressor molecules and regulation of myelopoiesis: biology and possible clinical uses. Amer. J. Ped. Hematol/Oncol. in press. 14(1): 12 (1992)

AR| Davatelis, G., S.D. Wolpe, B. Sherry, J.M. Dayer, R. Chicheportiche, and A. Cerami. 1989. Macrophage inflammatory protein-1: a prostaglandin-independent endogenous pyrogen. Science 243:1066.

AS| Davatelis, G., P. Tekamp-Olson, S.D. Wolpe, K. Hermsen, C. Luedke, C. Gallegos, D. Coit, J. Merryweather, and A. Cerami. 1988. Cloning and characterization of a cDNA for murine macrophage inflammatory protein (MIP), a novel monokine with inflammatory and chemokinetic properties. Journal of Experimental Medicine. 167:1939;

W.G. Minei, J.P., Morgello, S., Shires, G.T. and Cerami, A. 1990. Cytokine production in a model of wound healing: the appearance of MIP-1, MIP-2, cachectin/TNF and IL-I. Cytokine, Vol. 2, No. 2 (March), pp. 92-99.

eu 9/15/93

THE REAL PROPERTY.

AU Graham, G.J., E.G. Wright, R. Hewick, S.D. Wolpe, N.M. Wilkie, D. Donaldson, S. Lorimore, and I.B. Pragnell. 1990. Identification and characterization of an inhibitor of haemopoietic stem cell proliferation. Nature 344:442.

 AV_1^{\dagger} Broxmeyer, H.E., B. Sherry, S. Cooper, F.W. Ruscetti, D.E. Williams, P. Arosio, B.S. Kwon, A. Cerami. 1991. Macrophage inflammatory protein (MIP)-1 β abrogates the capacity of MIP-1 α to suppress myeloid progenitor cell growth. J. Immunol. 147:2586.

Broxmeyer, H. E. 1990. Interacting effects of cytokines on hematopoietic stem and progenitor cells. In, Hematopoietic Growth Factors in Clinical Applications, Mertelsmann R, Herrmann F, eds, Marcel Dekker, Inc, New York NY, 3.

AX| Lipes, M.A., M. Napolitano, K.T. Jeang, N.T. Chang, and W.J. Leonard. 1990. Identification, cloning and characterization of an immune activation gene. Proc. Natl. Acad. Sci. USA. 85:9704;

AY | Miller, M.D., S. Hata, R.D.W. Malefyt, and M.S. Krangel. 1989. A novel polypeptide secreted by activated human T lymphocytes. J. Immunol. 143:2907.

AZ | Minano, F.J., Sancibrian, M., Vizcaino, M., Paez, X., Davatelis, G., Fahey, T., Sherry, B., Cerami, A. and Myers, R.D. 1990. Macrophage inflammatory protein-1: unique action on the hypothalamus to evoke fever. Brain Res. Bull. Vol. 24, pp. 849-852.

BA¦ Oh, K.-O., Zhou, Z., Kim, K.-K., Samanta, H., Fraser, M., Kim, Y.-J., Broxmeyer, H.E. and Kwon, B.S. 1991. Identification of cell surface receptors for murine macrophage inflammatory protein-1α. J. Immunol. Vol. 147, pp. 2978-2983.

BB| Oppenheim, J. J., C. O. C. Zachariae, N. Mukaido, and K. Matsushima. 1991. Properties of the novel proinflammatory supergene "intercrine" cytokine family. Ann. Rev. Immunol. 9: 617.

BC | Sherry, B., P. Tekamp-Olson, C. Gallegos, D. Bauer, G. Davatelis, S. Wolpe, F. Masiarz, D. Coit, and A. Cerami. 1988. Resolution of the two components of macrophage inflammatory protein 1, and cloning and characterization of one of those components, macrophage inflammatory protein 18. Journal of Experimental Medicine. 168:2251.

BD! Tekamp-Olson, P., C. Gallegos, D. Bauer, J. McClain, B. Sherry, M. Fabre, S. Van Deventer, and A. Cerami. 1990. Cloning and characterization of cDNAs for murine macrophage inflammatory protein 2 and its human homologues. J. Exp. Med. 172:911.

BE Wolpe, S. D. and A. Cerami. 1989. Macrophage inflammatory proteins 1 and 2: members of a novel superfamily of cytokines. FASEB J. 3:2565.

BF| Wolpe, S. D., B. Sherry, D. Juers, G. Davatelis, R. W. Yurt, and A. Cerami. 1989. Identification and characterization of macrophage inflammatory protein 2. Proc. Natl. Acad. Sci. USA 86:612;

BG| Wolpe, S. D., G. Davatelis, B. Sherry, B. Beutler, D. G. Hesse, H. T. Houyen, L. L. Moldawer, C. F. Nathan, S. F. Lowry, and A. Cerami. 1988. Macrophages secrete a novel heparin-binding protein with inflammatory and neutrophil chemokinetic properties. J. Exp. Med. 167:570;

Elis 9/1793

Colored to be in his

BH| Zipfel, P.F., J. Balke, S.G. Irving, K. Kelly, and U. Siebenlist. 1989. Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors. J. Immunol. 142:1582;

BI | Dunlop, D., Wright, E.G., Lorimore, S., Graham, T., Holyoake, T., Kerr, D.J., Wolpe, S.D., and Pragnell, I.B. 1992. Demonstraton of Stem Cell Inhibition and Myeloproteactive Effects of SCI/rhMIP1α In Vivo. Blood, Vol. 79., (May 1, 1992) pp. 2221-2225.

BJ| Schall, T.J., Jongstra, J., Dryer, B.J., Jorgensen, J., Clayberger, C., Dawis, M.M. and Krensky, A.M., 1988. A HUMAN T CELL-SPECIFIC MOLECULE IS A MEMEBEROF A NEW GENE FAMILY. J. Immunol., Vol. 141. August 1988, pp. 1018-1025.

BK| Cohen, J., Mounting a Targeted Strike on Unwanted Immune Responses, Science, Vol. 257, August 1992, page 751.

BLi Lenschow, D.J., Zeng, Y., Thistlethwaite, J.R., Montag, A., Brady, W., Gibson, M.G., Linsley, P.S. and Bluestone, J.A., Long-Term Survival of Xenogeneic Pancreatic Islet Grafts Induced by CTLA4lg, August 1992, Science, Vol. 257., pp 789792.

BM Linsley, P.S., Wallace, P.M., Johnson, J., Gibson, M.G., Greene, J.L., Ledbetter, J.A., Singh, C. and Tepper, M.A., August 1992, Immunosuppression in Vivo by a Soluble Form of the CTLA-4 Cell Activation Molecule, Science, Vol. 257, pp. 792-795.

BN Kwon, B.S., G.S. Kim, M.B. Prystowsky, D.W. Lancki, D.E. Sabath, J. Pan, and S.M. Weissman. 1987. Isolation and initial characterization of multiple species of T-lymphocyte subset cDNA clones. Proc.Natl.Acad.Sci.USA 84:2896, incorported herein by reference and disclosed herein.

T-cell genes. Proc. Natl. Acad. Sci. USA 86:1963-1967.

BP| Obaru, K., M. Fukuda, S. Maeda, and K. Shimada. 1986. A cDNA clone used to study mRNA induction in human tonsillar lymphocytes by a tumor promoter. J.Biochem. 99:885;

BQ| Maniatis et al, 1982) Molecular Cloning: A Laboratory Manual (Cold Spring Harbor Laboratory, Cold Spring Harbor, NY), pp. 310-352.

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance or not considered. Include a copy of this form with the next communication to applicant.



